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FIGURE 2

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FIGURE 3

METHOD FOR RISK BASED TESTING

by Scott Alan NOONAN, et al.
U.S. Patent Application No.: To Be Assigned Attorney Docket No.: 52493.000374
Filed March 31, 2004

Test Case	e Detail Report		ilter = EDE roup Filter = INT								
	,	Total	# of test cases in th	is repor	t = 140				•		
Tesi Group Case #	Description			Tester	•	Build	Test Status	Notes			
•		n a servasive alam. E				EDE	Not				
INT 3	GEFA - 599 /fax copy - GEFA 5	Inout Date	Success Condition	Passed	Related bugs	Teste	Notes (Re	cutts)		Rule ID	Req ID
. Step	# Test Step Action Data entry of torms	Part 1 and Part 2	CLF record is created. No tasks generate; CLF	No			•				
2	NB/Verify Champ New App	Part 1	New App message in Champ	No							
3	MB/MIB	proper signed authorization	60d5 displays VERDET	No							
4	NB/Requirements	successful submit	60d5 displays HOS and SMA requirements	No							
5	CLF 60d1 Display	Payment Method & mode, application date	60d1 shows DIR SEM, application date from	No							
. 6	CLF 60d2 Display	Pten, Amount, Riders/Benefits,	60d2 shows Term 10C, 2,000,000, Preferred No	No							
7	CLF 60d3	Agent information	60d3 is blank	No							
	CLF 60d7	Owner/Beneficiary/Payo r/Procosed Insured	60d7 displays proposed insured, owner,	No							
. 9	CLF 60d8	Owner/Insured/Payor address	60d8 displays proposed insured, owner, payor	No ·							
. 10	CLF 60US	Premium Pay State, Channel, Site, BGA #,	60US correct based on application	No							
. 11	CLF 60xx	Bill Code, AppSt, Replacement Code,	60xx correct based on application	No					:		
. 12		change DOB 11/11/1938	update to reflect new	No No							
13		Delete Current Alphe - verily correcct seq id	Alpha record is deleted Alpha record built and	No.							
14			acq id matches the 6091 60DS acreen displays	No.							
15		Response received from MIB add Payor - Susan R	receipted VERDET 6089, 60d7 should	No ·							
. 16		Grabherr, 123 any add first modal premium	display Payor name	No					:	:	
. 17		•	money applied	No							
. 18	Champ - final disposition	Decline medically		140							

FIGURE 4

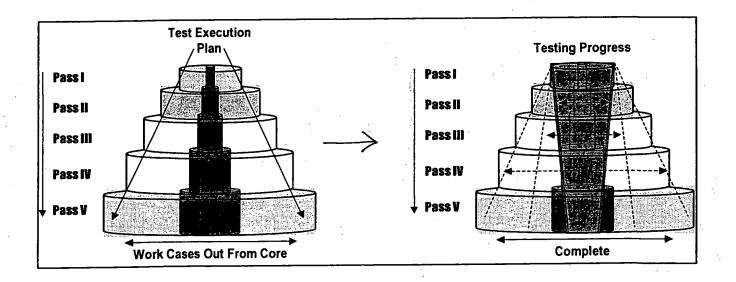


FIGURE 5

Filed March 31, 2004

Bug Reporting and Tracking

Tester

- · Identify/report suspected bugs. The bugs are entered into the bug tracking tool with a detailed description.
- · Coordinate and check for duplication of bugs, redundant bugs where possible.
- · Generate reports to review status of reported bugs for retesting as needed.



Troubleshooter/Business & Technical Support

- · Generate a report of all reported bugs, validating against the design requirements.
- · Coordinate with technical/business to locate source of the bugs and develop business solutions.
- · Communicate to testers the status of reported bugs by updating bug status in the TEST SOFTWARE
- Verify reported bugs and set the initial severity, discovery category, original bug reason, and tester. If Applicable, owner, notes and screenshots by be included
- Coordinate the modification and development of rules. User Interfaces, form flows, workflow, and development of bug fixes.
- · Provide update training procedures



Bug REVIEW

- · Attended by testers, troubleshooters, and development.
- Review the analysis, business resolution, proper severity level and categorization of new bugs.
- · Check the status of key bugs.
- · Assign work.



Development Team

- Troubleshoot and fix bugs as assigned based on Bug Review Severity
- · Unit test fixes and prepare code for integration.



Deployment Team

- · Receive unit tested fixes ready for Integration.
- · Change Bug Status to User Test when integration complete and new build is ready to test.
- · Notify Tester and Submitter by email when any change or update is made and is ready to test.



Tester

- Tester will receive an email message when an update or status is made and is ready to test.
- · Retest the bug.
- If retest is successful, update the bug tracking tool with resolution details and close the bug.
- If retest fails, reset bug status to rework and notify development.

FIGUREG

Program Data Manager - (Bug E		ACT STATES		
		Requery Reports Gose		
Bug Entry/Manager	nent			
ID: Seventy: Team:	- Jester*/ Troubleshooter*	Type/ Functionality*	When discovered/ submitted	Description*-
1 2:- CTeam	Diane Russel	Type 3 Supplement Forms	9/3//038353AM (3) 4/1/0382335AM (3)	Under Specific Racing into you are not allowed to sheek more than one check box- You should be able to select all that apply for that sanctioning body and hand of com-
2 4 CTeam	Diene Russell S	Type 3 Supplement Forms	3/31/03 8:30 25 AM (3)	GL7 Drop down firt is not in correct order. Need to have 6mos to 1 yr follow D-6month option
3 1 B Teem 5	Donna Donovan 🗵 Bonita Clark 🖸	Type 1 Part 1 Rules	3/28/03 3:51:53 PM (3) 4/7/03 6:44:08 PM (3)	Deneficary dropdowns do not appear for trust type (panely, informal, last will) -
4 Clean	Diane Russel © Tad Coburn ©	Type 3 Supplement Forms	3/31/03 9 00 00 AM (C)	[1] When you click on "logout" (in DE) it takes you back to the login screen instead of the founcher page 2) Logout button from EM is a 'dead' button. Have to x
5 1 EDE Team 💌	Kezi Sherifuddin 🕟 Linda Keessee 😇	Type 1 TIAA Form	3/28/03 11:11:19 AM (S)	TIAA form date not seved. To recreate complete the data entry (Submit & End), go to EM, view TIAA data collector all fields are empty.
6 2 EDE Teem	Kezi Sharifuddin 🔀 Linda Keessee 😥	Type 1 Part 1 Rules	3/28/03 11:17:05 AM (3) 	Part I form data: - Not saving "Premium Source"
7 2 EDE Team ⊆	Kazi Sherifuddin 🕒	Type 1	3/28/03 11:24:48 AM G	Created incorrect DSS validation task with descrepancy "application signe date is empty".
Bug number.	76⊡ Bug/Development ⊡ 1395	Retest Info. Retest status Retest leater Date/Time: 4 HEV Jul GENIUS Testinol Date C	needed: once esta denote the necess	need to be examined to determine is multicalect is ablished visio will need to be updated with "purple test" to saity multivalect
		Delete Link		
The state of the s) el d' 202		ENTU : 😂 Early Data Errby 👙 🔒 🙋	Program Data Mana UK P 3-895 438

FIGURE 7

BEST AVAILABLE COPY

			Productio	on vs. Model Of	fice Comparis	son	- .		
	Server	Region	Applications		CPU	Int	FP	Memory	Disks
Se	nm01	Production	App 1	Server Type 1	8 * 900 MHz	3680		16 GB	6 * 72 GB
Server	nm02	Production	App 2	Server Type 1	8 * 900 MHz	3680		16 GB	6 * 72 GB
\bar{z}					Total	7360			
Role	nm09	Model	App 1 & 2	Servet Type 3	2 * 750 MHz	740	640	4 GB	2 * 36 GB
					Total	740	640		
					Difference	9.95	15.75	# of X larg	ger
	nm03	Production			2 * 750 MHz	740		4 GB	2 * 36 GB
တ္ဆ	nm04	Production			2 * 750 MHz	740	640	2 GB	2 * 36 GB
Server	nm05	Production			2 * 750 MHz	740	640	4 GB	2 * 36 GB
<u> </u>	nm06	Production	Арр 3	Server Type 3	2 * 750 MHz	740	640	4 GB	2 * 36 GB
Role					Total	2960	2560		
e 2	nm10	Model	App 3	Server Type 3	2 * 750 MHz	740	640	4 GB	2 * 36 GB
				 	Total	740	640		
<u> </u>					Difference	4	4	# of X larg	jer
တ္ထ	nm07	Production			2 * 900 MHz	920	1260	4 GB	6 * 72 GB
Server	nm08	Production	App 4	Server Type 2	2 * 900 MHz	920	1260	4 GB	6 * 72 GB
9	. 44				Total	1840	2520		
Role	nm11	Model	App 4	Server Type 2	2 * 900 MHz	920	1260	4 GB	6 * 72 GB
e	<u> </u>				Total	920	1260		
		<u>_</u>			Difference	2	2	# of X larg	er

FIGURE 8

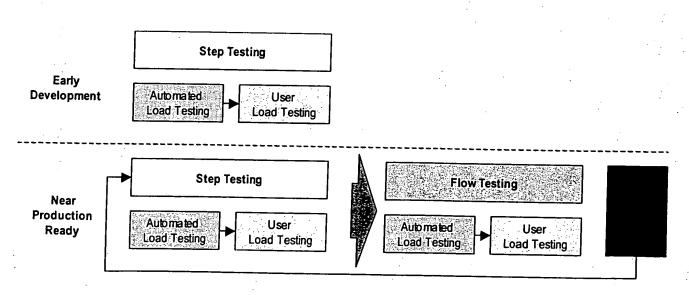


FIGURE 9

Source	Start	End	Elapsed	Forms	Per minute
log.3	12:07:2	0 12:56:34			
log.2	12:56:4	1 15:32:49	154		3.26
log.1	15:33:0	6 18:12:38	159		3.00
log	18:12:4	6 19:06:07	54		2.72
Total Successful			416	1272	3.06
Error queue	 			220	<u> </u>
Retry queue				524	
Forms Processed				2016	
System	Model	CPUs	Integer	Floating Point	
nm01	Server Type 1	8 * 900 MHz	3680		
nm02	Server Type 1	8 * 900 MHz	3680		
			7360	10080	Total
nm03	Server Type 2	4 * 900 MHz	1840	2520	
		•	4		Comparison (# of times faster Production should be)
		•			Production estimate per minute (Comparison * per minute)
			ļ	10000	Validations per day
	•		· .	817.61	Minutes to process
				13 63	Hours to process

FIGURE 10

	12	3	4	5	6	7	1 8	9
Туре	# Per Day		ual Model formance	Mod/Prod Capacity Difference*	Overhead**	Expected Production Performance	Perfo	Production ormance***
Transaction 1	240	35.15	8436.21	9.95	20%	1059.83	12.98	3115.80
Transaction 2	720	27.05	19479.17	9.95	20%	2447.13	4.92	3541.67
Transaction 3	400	20.56	8222.22	9.95	20%	1032.94		
Transaction 4	800	93.05	74438.30	9.95	20%	9351.55		
Transaction 5	800	6.99	5595.82	9.95	20%	702.99		
Transaction 6	200	10.09	2017.20	9.95	20%	253.42	6.44	1287.62
Transaction 7	4000	118.61	474428.20	9.95	20%	59601.53		86453.84
Transaction 8	4000	157.55	630203.04		20%	79171.24		
Transaction 9	100	27.01	2700.62	9.95	20%	339.27	1.91	191.06
Transaction 10	200	23.32	4663.50	9.95	20%	585.87	4.63	925.93
	Total S	econds	1230184.28			154545.76		148201.26
	Total Hours 341.72					42.93		41.17
* Calculated from SpecINT ratings	** Esti overhe		dditional	*** Improveme actual system	nts resulting performance	from load test	ing imp	roved the

FIGURE 11

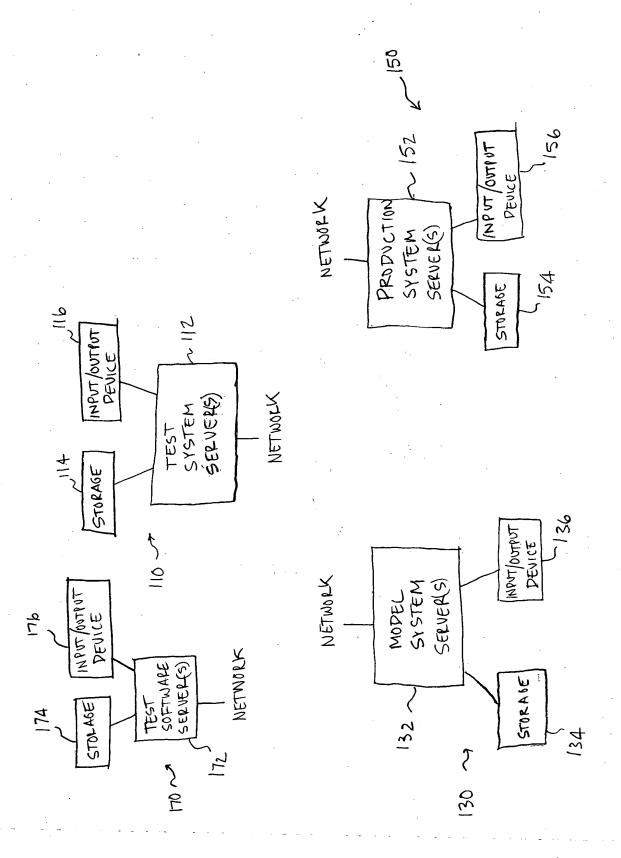


FIGURE 12.